

11/28/07 Objective: TSWBAT find solutions to systems of linear equations by graphing

Vocabulary

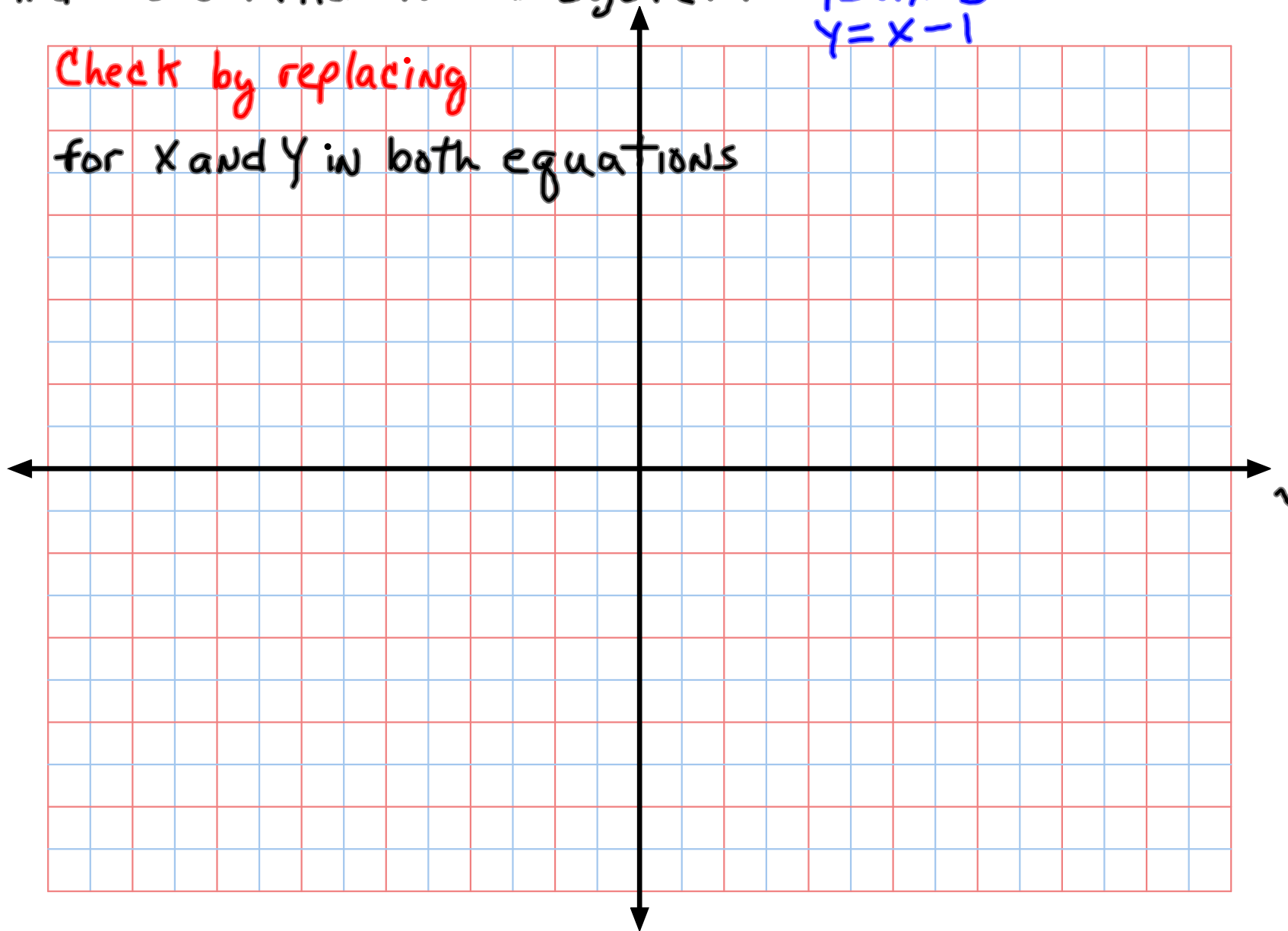
- ① system of linear equations - two or more linear equations
- ② solution to the system - any ordered pair that makes all equations true

Find The Solution to the System

$$y = 2x - 3$$
$$y = x - 1$$

Check by replacing

for x and y in both equations



Find The Solution to the System

$$y = 2x - 3$$
$$y = x - 1$$

Check by replacing (2, 1)
for x and y in both equations

$$1 = 2(2) - 3 \quad \checkmark$$

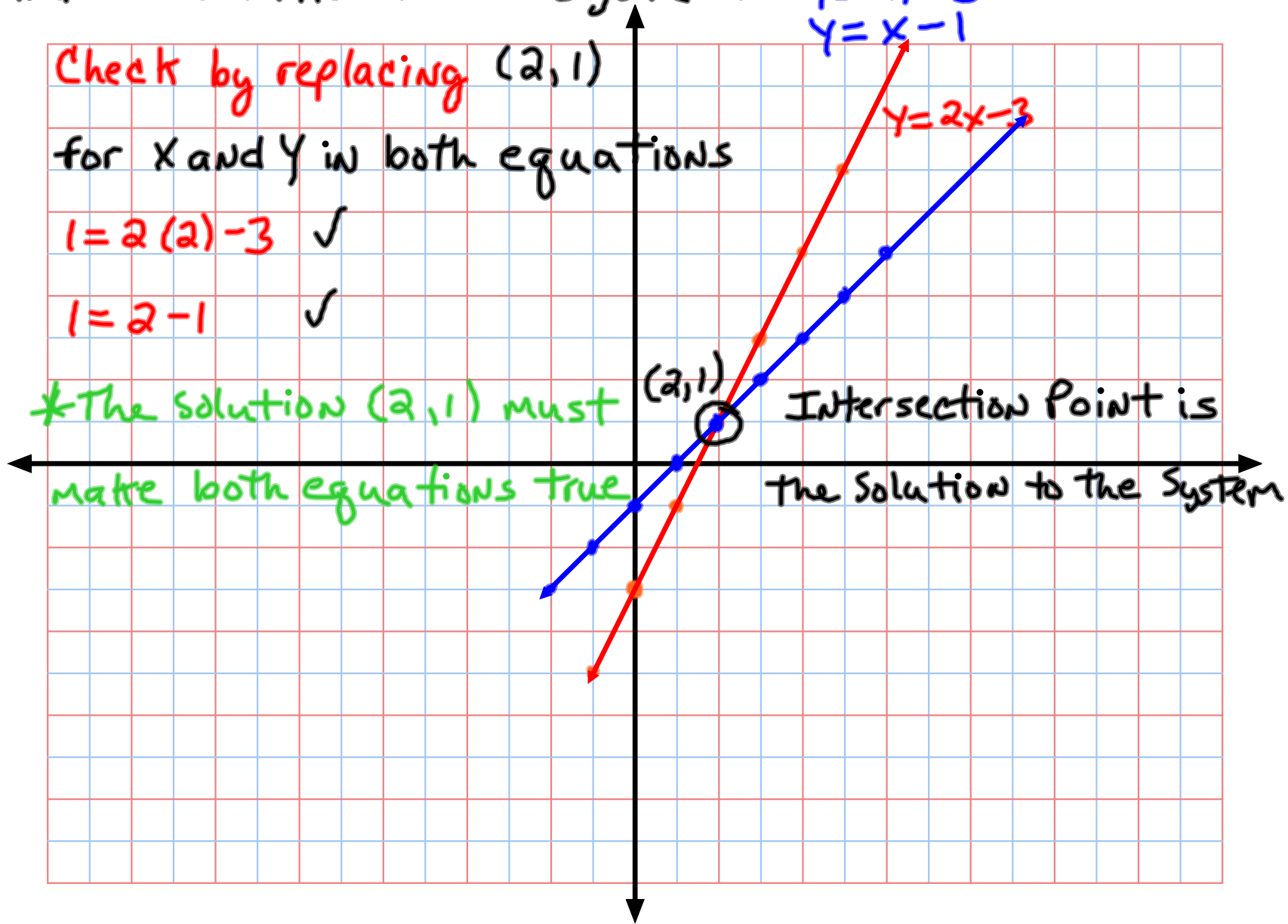
$$1 = 2 - 1 \quad \checkmark$$

*The solution (2, 1) must
make both equations true

(2, 1)

Intersection Point is

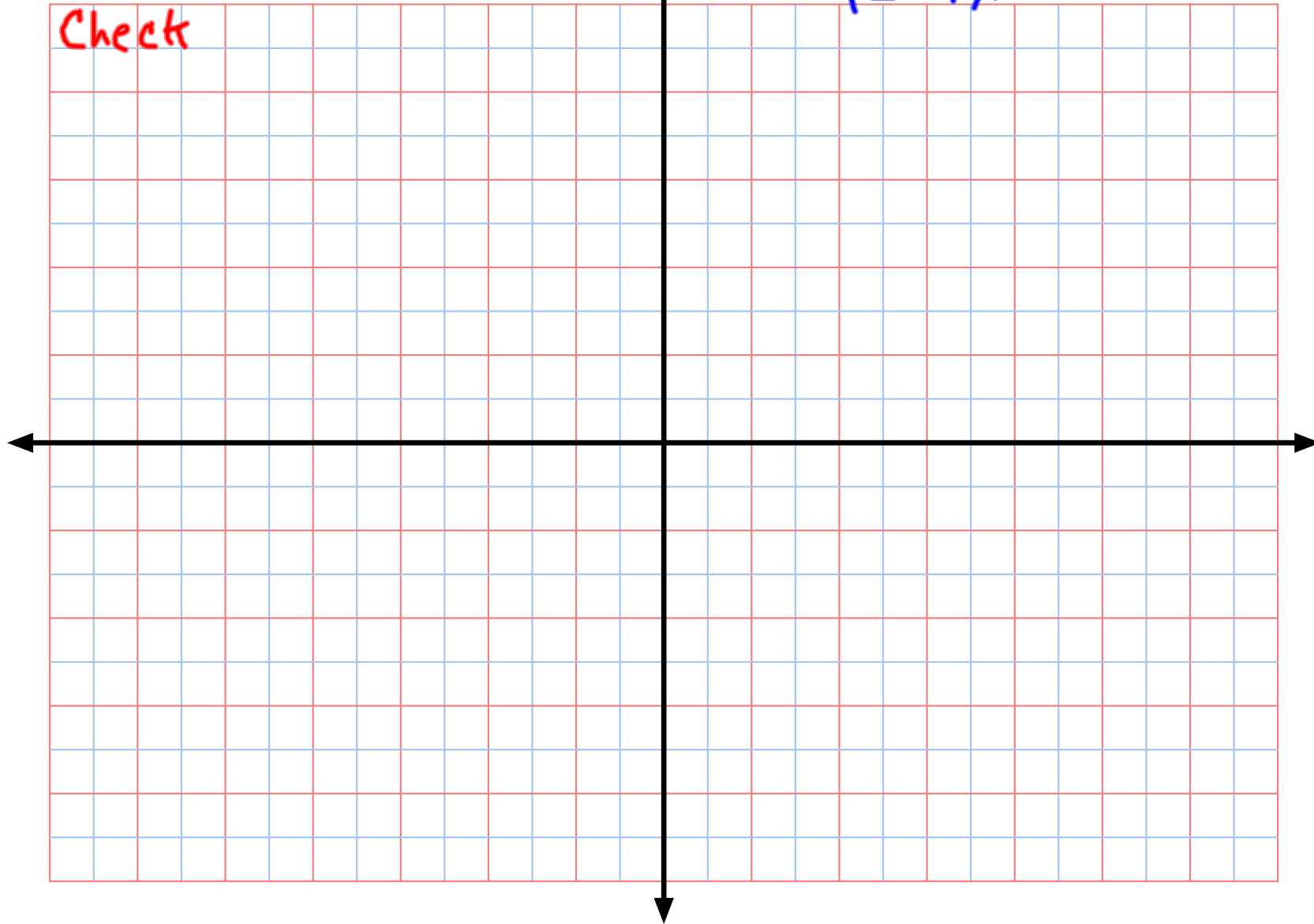
The Solution to the System



Find The Solution to the System

$$y = x + 5$$
$$y = -4x$$

Check

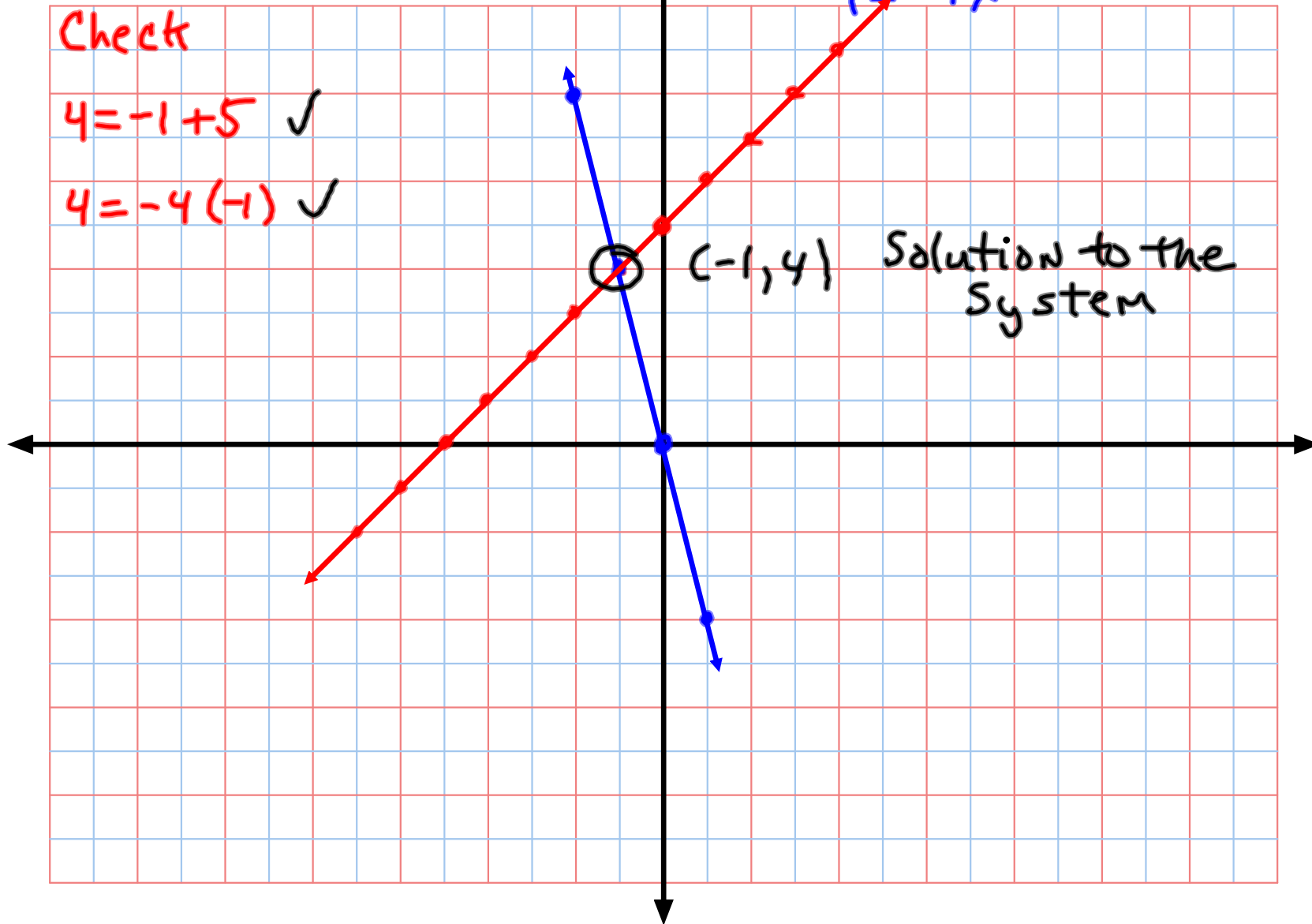


Find The Solution to the System $y = x + 5$
 $y = -4x$

Check

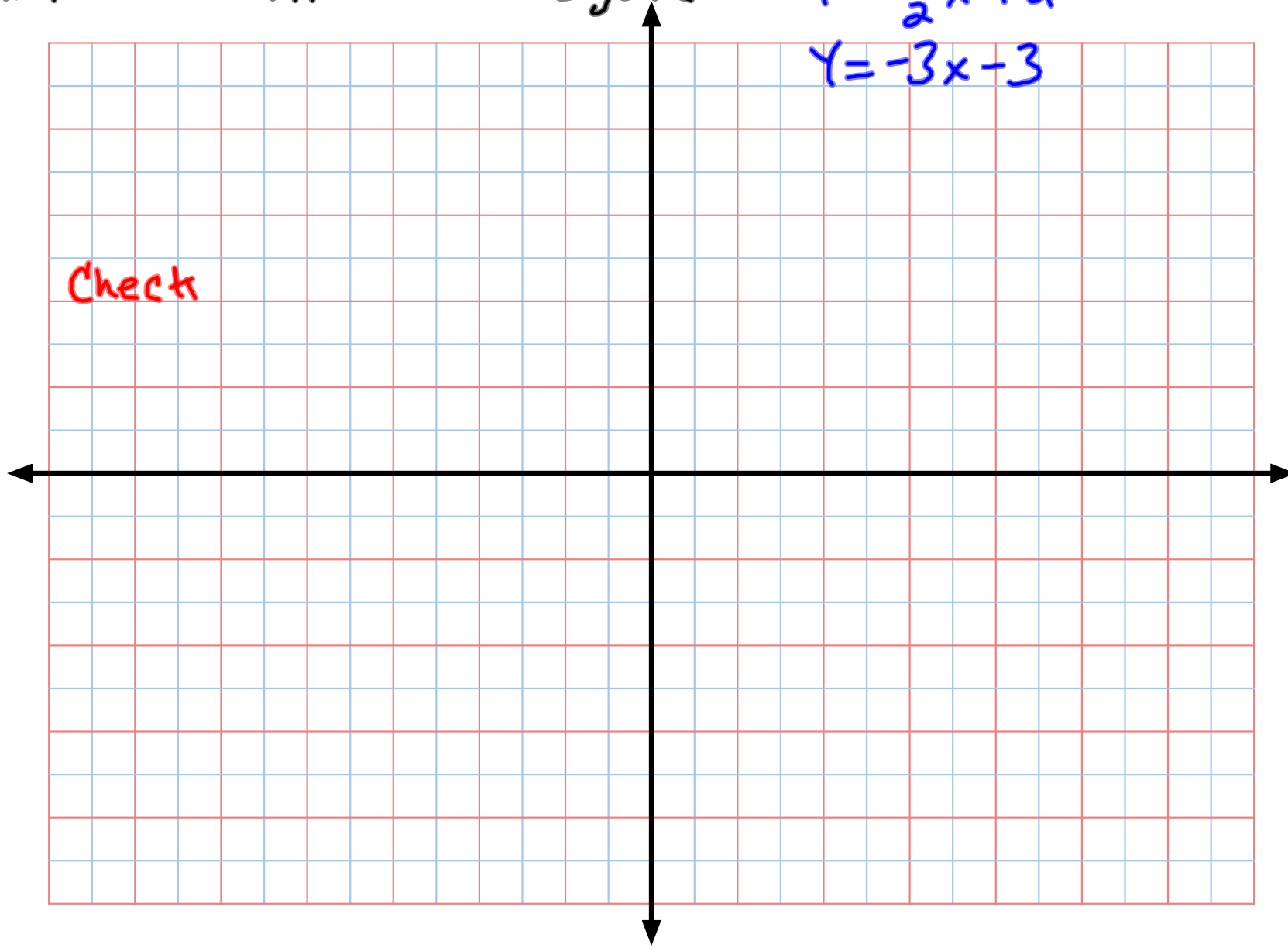
$$4 = -1 + 5 \quad \checkmark$$

$$4 = -4(-1) \quad \checkmark$$



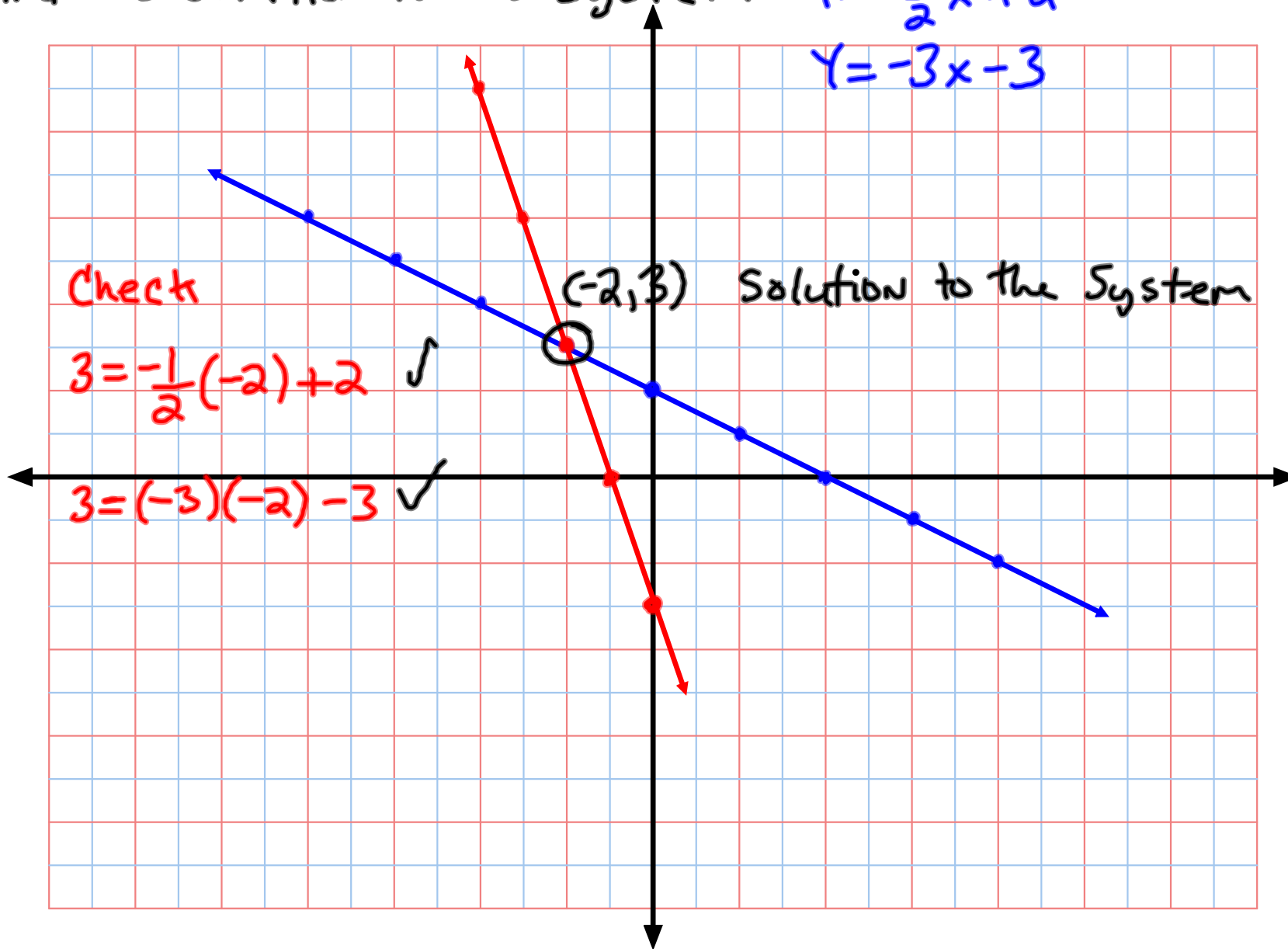
Find The Solution to the System $y = -\frac{1}{2}x + 2$

$$y = -3x - 3$$



Find The Solution to the System $y = -\frac{1}{2}x + 2$

$$y = -3x - 3$$



Find the Solution to the System $y = \frac{2}{3}x + 4$

$$y = -\frac{1}{3}x - 2$$

